DSN 119

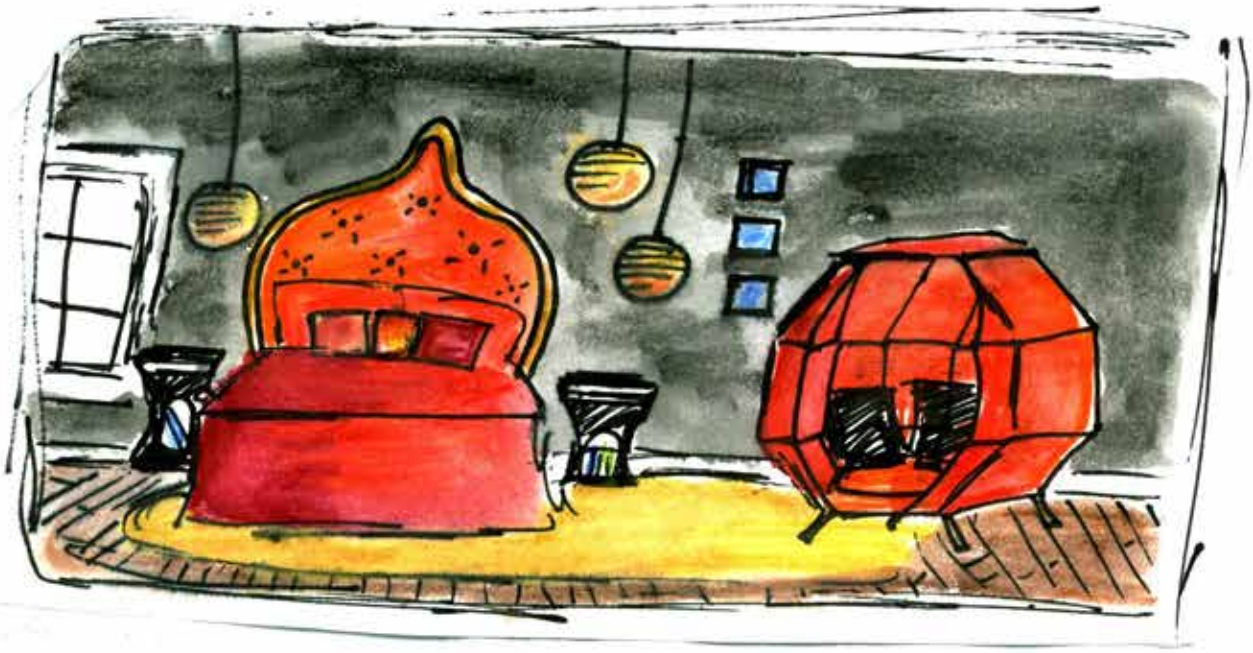
Sarah Krauter

9/25/2014

Assignment 2.

Design Thesis

1.1 I intend to design a unique seat for home use.



1.2.

The seat will provide privacy and functionality as well as a pleasing aesthetic achieved by a pull-down panel lap-top shelf and through rich-toned, opaque panelling made of fire resistant material with both indoor and outdoor capabilities. Additionally, the unique geometrical shape of this design will increase inner-heat heat retention which will increase overall comfort and sustainability.

1.3 This seat is designed for the individual who desires functional statement pieces in bold, attractive colors, which will increase minimalist lifestyle. This piece is ideal for the cozy bookworm, studio-apartment dweller, and downtown loft blogger!

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1.4

For many individuals the focal point of online activities and book reading is the bed. The proposed seat design allows for high levels of comfort and functionality as well as the added benefits of sustainability and privacy.

1.5

The design will benefit the user by providing sustainability through heat retention and recycled materials, functionality for modern tasks and pastimes as well as creating a pleasant and unique aesthetic.

1.6 This piece is interesting to me because it expounds upon the traditionally limited design of comfortable seating in a manner which is fresh and cohesive. I believe people will appreciate the combined comfort and functionality of this design.

1.7

I will begin the design process by determining which material will be suitable to this seating structure for the safety of the user and the sustainability of the end user's environment. I will make size considerations based on the expected ammount of empty space in the average persons home and will proceed to build a model in order to better demonstrate the end goal.

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2.1

Potential problems with this design are several safety concerns. First, the angle of the legs is important in order to disable the seat from the capacity to roll. Second, the material must be fire resistant or treated with a fire resistant treatment in order to keep this seat from unwittingly becoming a fire hazard. Third, the frame must be made of a lightweight yet strong material in order to ensure the frame does not collapse atop the occupant of the seat.

2.2.

In order to begin this design it is important to be familiar with the end goal.
The ideal materials must be researched and the research must be refined and tailored to fit the end goal.

2.3 Size and sustainability are constraints which could be said to define possible solutions, however with proper application these shall result in the producing of a more excellent product.

2.4 I shall apply the above constraints in such a manner so as to improve design and increase the challenge which inspires creative juices to flow.

2.5
- Function - must perform as a seat.
- Form - must be capable of holding a person sitting in an upright position with a back to lean against.
- Size - should <u>not</u> take up an excessive amount of space.
- Shape - octagon
- Color - limited palette so as not to allow design to become a heinous monstrosity.

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2.5 (cont'd)

- Materials - must be weather/fire resistant to allow for indoor/outdoor use and safety.

- Sustainability - must be sustainable - preferablly created from recycled materials.

2.6
1. FORM
2. FUNCTION
3. SIZE
4. SHAPE
5. SUSTAINABILITY
6. MATERIALS
7. COLOR

2.7
- INHERENT
- INHERENT
- IMPOSED
- IMPOSED & INHERENT
- IMPOSED
- IMPOSED
- IMPOSED

2.8 Additional constraints

END USER
- needs usability - comfort, safety
- creativity
- something different - unique
- can be influenced by ← Fashion, profession, Hobbies, priorities

PRODUCTION
- needs TIME, INFORMATION, RESEARCH, FINE-TUNING
- HAS complications

DESIGNER
- NEEDS INFORMATION - MARKET RESEARCH
- AN IDEA / IDEAS
- ADAPTABILITY
- MUST KNOW - MATERIALS TO PROVIDE SAFETY, COMFORT

3.1 The most positive affect upon the environment by my design would likely be the strong enabling quality it has towards the minimalist lifestyle. By taking empty space and turning it into comfortable, multi-use space people may determine that they have less need for excess and choose to minimalize or downsize which creates less demand and therefore less waste.

1. By using recycled materials my design has a positive, less devouring affect upon the environment.

2. Producers must adhere to codes and philosophies in line with increased sustainability: it would be improper and wasteful to create a sustainable design and then have it produced by a company that did not rely on sustainable practices.

3. Packaging should consist of recycled, renewable materials.

4. Condensed forms of packaging as well as puzzle-styled shipping will allow for more product per load, hence less loads, hence less pollution.

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3.1 (cont'd)

5. Usage of this design will increase within - seat body heat retention allowing for the possibility of generally lower thermostat settings and, overall less energy use per unit.

6. Due to the sustainability of this renewable design, components may be broken down and recycled.

3.2

My designs may minimize the environmental impact of the product through less energy use, overall renewability of design, use of recycled materials and the proud statements thereof: this will increase consumer awareness which affects the good of the environment.

Solutions to be implemented by myself in the designing include research, awareness, and the unbendable nature of my sustainable design. Larger cooperative efforts will come in to play when choosing the production method of a like-minded company with a mind for the greater good of all.